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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,832	02/12/2002	Kern W. Wong	P05085	9012
7590		06/09/2005	EXAMINER	
Docket Clerk		ROBERT, RUSSELL MARC		
P.O. Drawer 800889		ART UNIT		
Dallas, TX 75380		PAPER NUMBER		
		2829		

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/075,832

Applicant(s)

WONG, KERN W.

Examiner

Russell M. Kobert

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leedy (6288561) in view of Kvanvig et al (6501290).

Leedy discloses an apparatus (Figure 2) for socketing and testing integrated circuits comprising:

a housing (14a) comprising a universal printed circuit board (40) that is *operable* to receive a device under test (integrated circuits 64a-64l as shown in Figure 3), a controller (IC circuitry 50 [see also col 5, ln 25-26] and/or Temperature Control Device 48 [see also col 2, ln 34-41]) that is *operable* to control testing of the received device under test; as disclosed in claims 1 and 13.

Although Leedy does not explicitly indicate that an air machine is operable to controllably provide a thermally-varying air flow wherein the air machine is associable with the housing for form an at least substantially air-tight chamber ensconcing the received device under test,

Kvanvig et al discloses an air machine (230 in Figure 2) that is *operable* to controllably provide a thermally-varying air flow wherein said air machine is associable with a housing (210) to form an at least substantially air-tight chamber (inherent characteristic of a test chamber) ensconcing the received device under test (noted in Figure 1, step 102) as recited in claims 1 and 13.

As to claim 2 and the further requirement of claim 13, having the housing further comprising a power supply is considered and inherent characteristic of the TEST APPARATUS 250 disclosed in Kvanvig et al because the test apparatus of Kvanvig et al is enclosed within the TEST CHAMBER 210 and would have to have some source of power to perform its own operable function.

As to claims 3 and 15 having the printed circuit board circular shaped is clearly shown in Leedy (see Figure 3, item 40).

The methods described in claims 7-12 are the obvious methods of using the apparatus of the above combination because they do not further limit the claimed apparatus.

As to claim 19 having the device under test to be one of a RF integrated circuit and a high-frequency integrated circuit is not considered to further limit the invention as described in claims 1 and 13 (note: the invention is limited to the apparatus for socketing and testing) and the properties disclosed in claims 4-6, 14, 16-18 and 20 are within the operable scope of the above combination.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have combined the teaching of Kvanvig et al with that of Leedy

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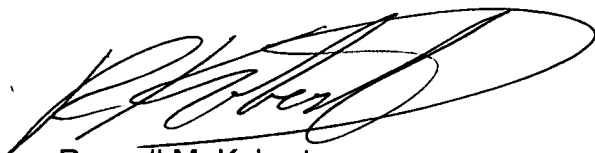
to make the claimed invention because Kvanvig et al improves upon the temperature control means by providing the ability to regulate the temperature of forced air into the chamber using the Thermal Conditioning Unit. Moreover, Kvanvig et al is capable of providing a thermally-variable air flow by indicating, in alternative language, that the air flow **may be** delivered at predetermined set point temperature (col 2, ln 34-38).

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hagge et al (3710251) and Shirley (6322626) show air machines used in controlling temperature in electronic substrates.

A shortened statutory period for response to this action is set to expire three month(s) from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kobert whose telephone number is (571) 272-1963. The Examiner's Supervisor, Nestor R. Ramirez, can be reached at (571) 272-2034. For an automated menu of Tech Center 2800 phone numbers call (571) 272-2800.



Russell M. Kobert
Patent Examiner
Group Art Unit 2829
June 3, 2005



VINH NGUYEN
PRIMARY EXAMINER

A.U. 2829

06/06/05